24 CFR Part 51 Subpart C

A review of the Regulation

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Introduction

- Purpose
  - To provide an overview of the regulation 24 CFR Part 51 Subpart C.

- Background
  - The regulation covers technical requirements for determining Acceptable Separation Distances (ASD) from HUD-assisted projects in close proximity to stationary hazardous operations that have above ground stationary storage containers of more than 100 gallon capacity

- Purpose of this Regulation
  - Ensures that HUD-assisted projects and associated open-outdoor areas to these projects where people may congregate or be present are at an Acceptable Separation Distance from hazardous facilities.

- The regulation applies to:
  - HUD-assisted projects as defined at 24 CFR 51.201.

- This regulation does not apply:
  - High pressure natural gas transmission pipelines **or** liquid petroleum pipelines
  - Natural gas holders with floating tops
  - Mobile tanks en route
  - Underground storage tanks
  - Stationary containers of 100 gallons **or** less capacity

- Professionals most likely to apply the regulation :
  - Planners
  - Developers
  - Engineers
  - HUD field and headquarters staff
  - HUD grantees

Standards

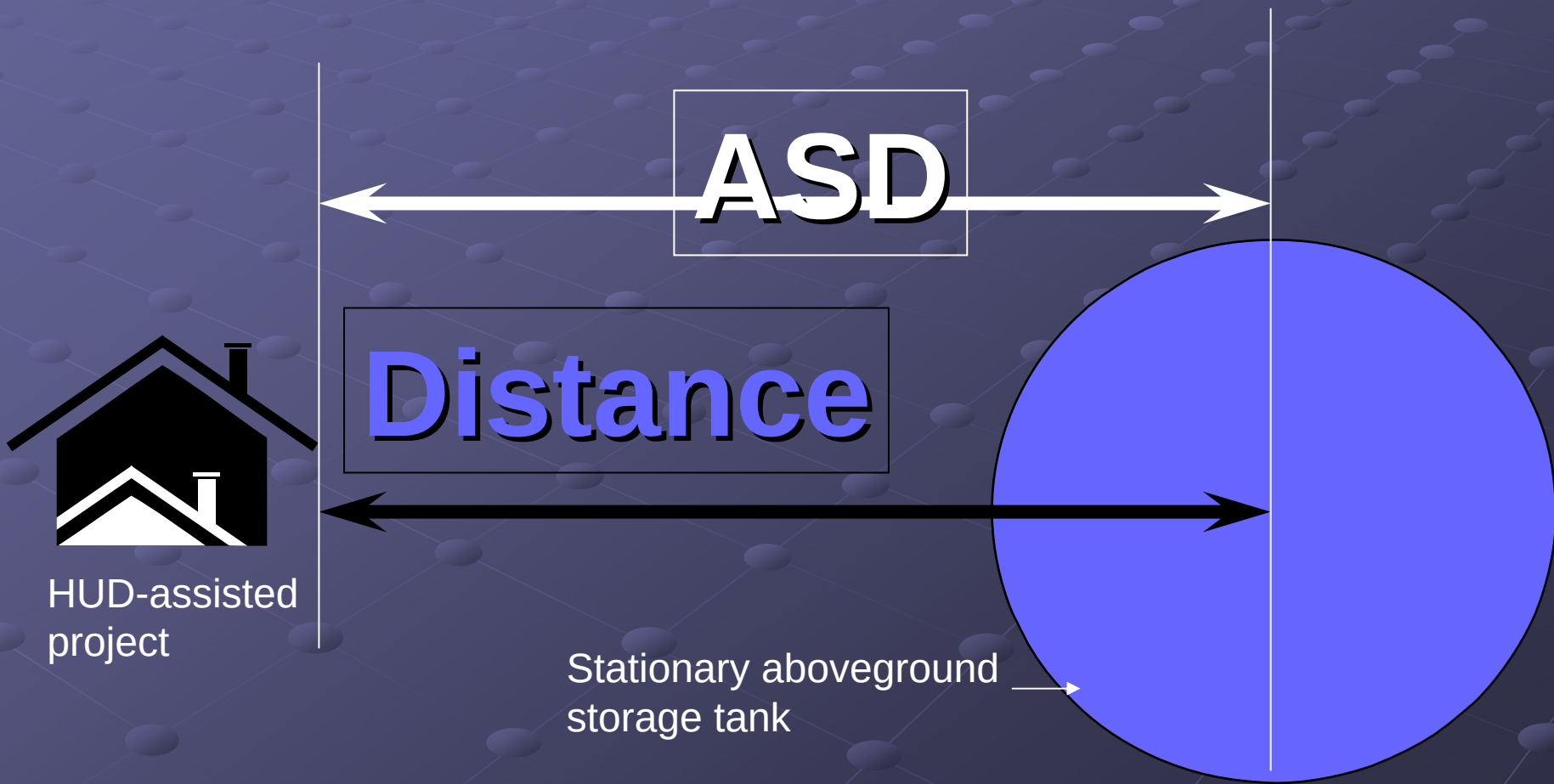
There are two standards:

Thermal radiation and blast overpressure:

1. Thermal Radiation:
   - Buildings - 10,000 BTU/Ft.sq Hr
   - People – 450 BTU/Ft. sq Hr.
2. Blast Overpressure:
   - Buildings - 0.5 PSI

What is the ASD?

Acceptable Separation Distance (ASD)



Analysis

- If the proposed HUD-assisted project does not meet the ASD standard **and** there are no natural or man made barriers of adequate size and strength between the hazardous facility and the proposed site for the HUD-assisted project to shield the project from the hazard, the project shall be appropriately mitigated from the hazard.

Mitigation

- To protect buildings and people
- When the Acceptable Separation Distance (ASD) cannot be met
- Applies only to HUD-assisted projects

What are the options?

Mitigation Options

- Bury the hazard
- Modify the building design to compensate for the ASD
- Choose another site
- Design and implement a barrier

Designing Barriers

- How does a barrier work/what does it do?
  - Functions as abatement for thermal heat flux and blast overpressure
  - Provides protection to HUD-assisted projects when the ASD has not been met
- Who should design a barrier?
  - **Only** a licensed professional should design and oversee the construction of mitigation barriers

Questions?